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Papers March 12th
1824W. E. H.
Dean

A Dissertation

on the

Secale Cornutum

By

William Armstrong Irvine

of

Pennsylvania

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Among the great variety of new medicines, which have of late years been introduced into our Materia Medica, there are few articles that demand our attention more than the Ergot: whether we regard the evils or the benefits resulting from its use. at one time the scourge of ~~Manhood~~ ^{Manhood}, now destined to alleviate the sufferings of that sex which presents the strongest claims to our sympathy and relief. Although the good effects which arose from administering this medicine in lingering labours had been observed many years since, yet the practice was confined to a few females, never having been noticed by the Medical men of those countries which have suffered so much from its use. We cannot, then, but be proud that it was reserved for an American Physician to introduce into regular practice

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The *Agot* is an elongated excrecence which occupies the place of the seed within the glume or husk of the *Aye*. It has received several different appellations, as *Calcar*, *Clavus Secatinus*, *Secale Inguinis*, *Hütterkan*, by the Germans, *Spearred* or *horned Aye*, by the English, and is known to Medical Men under the name of *Secale Cornutum*. It is about an inch in length, of a curved form, resembling the spur of a Cock, externally, of a dark brown colour, within whitish, brittle fracture, taste slightly bitter, something similar to the flavor of a hickory nut. As to its formation a variety of explanations have been offered, none of which are conclusive; that the disease is not confined to the *Aye* is well known, as grain of other species are affected by it, tho' not to that extent, as the *Aye*. There is also one species of *quafor* denominated

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denominated *Poa Potentis*, or meadow spear grass, which abounds, at times, in an exuberance only differing from the Eget in its size; which, as I shall hereafter shew, appears capable of producing among the cattle a disease similar in its effects to that brought on by the use of the spurred rye.

M. De Caudolle places the Eget in the genus *Schrodium*, and turns it *Sclerium*.² The propriety of this arrangement has however been objected to by Bory, who states that it is not a mushroom, but a morbid modification of the rye itself. among others Schimper was of opinion that it was produced by a viscons honey-like substance which penetrates with the awn producing a fermentation which finally terminated in the Eget. M. Dejean, who was appointed by the Royal Society of medicine in Paris, to visit the province of Selegue in France, where he had ample opportunity of observing the growth of this plant, considers marshy soil, abundant rains, followed by a hot sun, as the

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as the main cause of the diseased grain. Tiller, who also
paid particular attention to the formation of the diseased
grains, thought that they were produced by the prick
of an insect. - During an examination of a parcel of
Egrot, he discovered that they contained an insect, namely,
perceptible, which he thought had been hatched and
nourished in that situation. - The grains in which he
had observed these insects he covered over with a
glass tumbler; they remained in the same place, enlarged,
and finally, consumed most of the Egrot: four of them
changed into Butterflies the legs, wings were thickly covered
with spots of white, and of a dark brown colour (murefanie) †
He thought he had perceived on the surface of a watering
pot in the garden Butterflies of a similar description.
In consequence of this he supposed that they were of
the same species; that they, had laid their eggs on the
grain, and from this source had proceeded the Butterflies
which he had obtained. that by some change in their
organization these grains had become Egrot, and served
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† of the small species of Butterflies

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

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as food for these insects; that they, had been metamorphosed into Butterflies, and that in their turn they would have become the cause of Eget in working, for the production of their posterity. Tillot acknowledges that he did not observe this to have been the case in all the grains he examined, but attributes it to the death of the insects after the Eget was formed. This statement is corroborated by Mond. Military Surgeon to the Hospital at Metz who wrote a treatise on this subject in 1771. he thought that it was produced by the prick of the Butterfly whilst the grain was in a soft state, exciting a fermentation by the matter which it deposits, terminating in the Eget. Not having had an opportunity of observing the progress of the Eget to the Egeted state. I am therefore not capable of deciding, whether this opinion of Tillot is correct; although there is high degree of probability, in the opinion of Tillot, that the Eget is produced by an insect, yet I am rather inclined to believe with Tissot that it may be attributed to marshy soil and abundant

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abundant rains followed by a hot sun: that it is not confined to marshy soil I am well aware. but I consider a continued moisture followed by a hot sun as the most probable cause, and indeed from an account which I have lately seen, it would appear that the eye was affected by the rays of the sun in a peculiar manner to which observation, if correct, would go far in confirming the above supposition.

Daugulin, Virey, and other Chemists have experimented in order to obtain the chemical constituents of the Eyok. It would seem from their experiments that it consisted 1st of a pale colouring matter, soluble in alcohol and tasting like fish oil - 2nd an oily matter - 3rd a rich colouring matter, insoluble in alcohol, and easily applicable to silk or wool - 4th an acid, probably phosphoric - 5th a bigeo-mineral matter prone to putrefaction, yielding much thick oil and ammonia by distillation.

+ It is stated by a Mr. Thellus of 'Tombes' that he had found a ray of sun, after a shower of rain of 4 or 5 hours duration falling on an ear of rye was sufficient to cause the membrane of the Author, containing the pollen to burst like a
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It having been ascertained that to the use of the Ergot
was to be referred the cause of the spasmodic and gan-
greneous diseases which have ravaged several parts of
Europe, more particularly the province of Sologne in
France. I have thought proper to insert a succinct
account of the disease; the situation and year in which
it appeared, such as I have been able to learn
from the French authors treating on this subject, which
have come within my reach.

Of the disease pro-
duced by the Ergot there are two species; the spasmodic
and gangrenous. The first of these has received the
name of *Comoulsio Cerealis* by Linnaeus and comoulsia
of Sologne in France. The earliest account we have
of this disease is in a paper published by the faculty
of Marburg in 1791, attributing it to the use of the
Ergot. a large number of those who were attacked by this
disease remained in a comatose state, and those
who escaped death continued in an unhealthy,

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unhealthy condition. They suffered more particularly, during the months of Jan'y, and February; the bodies of those who died soon putrefied. The cattle were also affected by this disease.

An accurate description has been given by J. A. Serink of the spasmodic disease as it prevailed in Husterburg, in Bohemia. It commenced, says he, by a disagreeable sensation in the feet, a sort of tickling, or pricking; The Stomach was soon affected by a violent cardialgia, from thence the disorder proceeded successively, to the hands and head; the fingers were so strongly clenched, that it required the efforts of ~~the efforts of~~ a strong man to overcome their contraction; the joints appeared as if they were luxated. The sick cried aloud in their agony, and complained of a burning sensation in their hands and feet; copious perspiration flowed from all parts of their body. After being thus affected the head became giddy;

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The eyes were covered by a thick mist, some of the
men then tried to remove it, to doubtless
and their movements, felt in vain, as if
it stuck; and were no longer master of their intellectual
faculties. Some of them became mad, one melancholy,
and others remained plunged in a comatose state.
In addition to the above symptoms it was attended
by Epistaxis, spitting, at the mouth of bloody sputum
sometimes tinged with green or yellow. The tongue was
frequently torn during the violence of their convulsions,
in some cases this organ swelled in such a manner
that speech was totally prevented a large quantity
of saliva flowing from the mouth. A majority
of those, who were affected with epileptic fits, fell
victims to this disease. When the limbs, after the
twitching, became stiff with cold, they suffered less
in their hands and feet. This kind of fits was
followed by a canine appetite, which was with
difficulty satisfied, very few had aversion for food.

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In one case a patient had sores on his neck which
secreted a yellow pus in the midst of dreadfull burning
pains. another had spots on his face resembling scabs,
and several others had their faces covered by these
spots in a horrible manner. The pulse remained without
an exception as in a state of health. This disease
remained two, four, and even eight weeks, with intervals
of repose, out of 500 who were thus affected, within
the knowledge of Scrink, 300 ^{children} perished considering,
as such all who were under 15 yrs. In another descri-
ption given by Dr. H. Bughdall it appears that they
were affected in nearly a similar manner.

No mode of treatment appeared capable of alleviating
this dreadfull sufferings; a remission rarely taking
place before the third week. Sometimes continuing, in
those persons, who suffered the disease to take its
course, until the second month. If after an attack
of these spasms, fever supervened, attended by,
copious perspiration, the chance for a recovery,

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was much greater. The limbs of those persons who died, were a short time before their death paralytic. In 1648, 49-75 (Boigland) was afflicted by this disease. In the year 1698 in several parts of Germany, persons who had been in the habit of using the rye containing the Ergot were attacked with vertigo, pain in the head, continual nausea and swelling of the face. Strasbourg in 1702 was overrun by a convulsive disorder. In 1716-17 it made its appearance in several parts of France, Savoy, and Sweden, according to Schomaker the crops contained one fourth Ergot, and to this cause was attributed the prevailing disorder; he also states that the marshy districts suffered the most.

The second species, or the gangrenous, which has received the name 'Necrosis ustulaginea', Gangrene of Solignac made its appearance in France in 1639. Traut, who was in Solignac, was informed by the Physicians of that district, that this disease was

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induced by the Ergot. In 1776 Loder was employed by the French Academy, to investigate this subject. From his report it appears that he was satisfied that this disease originated from the use of bread containing the spewed rye. Orleans and Bloislois were ravaged by this disorder in the year 1709. The gangrene commenced at the toes, rising gradually to the top of the thigh, the gangrenous parts separated spontaneously, in some cases it was stopped by Scarification and local a phuntions. When amputation was tried because, the gangrene was not stopped, the patient finally died, the disease having invaded the body. Females, generally, were not affected. It appears that in 1709, the rye in Sologne contained one fourth Ergot, and that those who fed on this grain experienced a kind of intoxication, and that this feeling was often followed by Gangrene and finally that in those districts where there was little Ergot, they were not so affected.

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The gangrene, with which these persons were affected spread rapidly, and to an alarming extent; in one case it caused the destruction of the toes of one foot; after that of the other, then the remaining portions of the feet, and successively, the flesh from the legs and thighs. when this account was given the bones at the hips had commenced granulating,*

During the excessive cold of 1709 it made its appearance in the canton of Lucerne, in those of Zurich and Berne in 1715-16. A description of this disease has been given by, Langius. He states that this disorder commenced with great lassitude, unattended by the slightest degree of fever; the extremities soon becoming cold; then pale and swelled, similar to the appearance they have after a long immersion in hot water; the wrinkles were so large as to prevent the traces of the veins from being perceived. Mute, deprived of all mobility, moving with difficulty, excreting much deep stas pass, which was increased by the heat of the

* Histoire de l'Académie de sciences for 1770

+ Acta Eruditor for 1716.

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chamber, or that of the bed; and only interrupted when the patient was exposed to a cold scarcely supportable; the pain extended by degrees from the ^{face} from the feet to the thighs, and from the hands to the arms, until those parts became dry and sphacelated. In several instances there was found in the gloves of those who were thus affected one or two of the digital phalanges. The other parts of the body remained in a healthy condition excepting, in those persons, who, at the commencement of the disorder, were affected by a slight degree of fever, succeeded by copious sweats which extended from the head to the pit of the Stomach; these were disturbed and troubled with frightfull dreams; more particularly when they had made use of hot Diversions. If they had only partaken of a small quantity of Food in their food, they were not affected much; having only a heavy or numb sensation in the head, to which succeeded a kind of intoxication. Those persons who had partaken of bread hot from

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the even, was more especially, subject to this last symptom. In 1794 this disease recurred in Bologna and was very fatal; the limbs of the patients became gangrenous and separated from their articulations. Some patients in the Hotel-Dieu lost both the superior and inferior extremities and as the life was not attended by hemorrhage, survived for some time.

Salerni a physician

of Bologna gives an account of the gangrenous disorder which prevailed in 1794 among other cases he states that of a boy, of ten years who lost both his thighs, and of another who lost one thigh and the leg of the opposite side; in 25 days they were both dead. It appears that amputation rather accelerated than checked this disorder, as out of 25 who were operated on only 4 or 5 escaped. Salerni observed that these unfortunate people were stupid, their skin yellow, the face and the white of the eyes particularly; their stomachs were hard large, and tense, that they became emaciated

(continues)

† published in the *Φ. in l'Academia dei Scienze* for 1794

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These evacuations were regular, the alvine excretions
bound, but that two or three weeks before death
diarrhoea supervened, attended with colic, that they
had a good appetite and slept well. The pulse
very small and scarcely perceptible, although the
veins appeared large and swelled - on opening
a vein the blood appeared very thick and dribbled out.
I shall notice but one other writer on this disorder
and that is Read Military Surgeon to the Hospital
at Metz, and on whose observations great reliance
seems to have been placed. He states that it commences
by acute pains in the extremities, with little swellings
maintained by inflammation, but not without fever.
In the course of 15 days the pain ceased. The hands
and feet were numb, accompanied by a great degree
of cold, which could not be overcome by the application
of any warmth; this state continued for about 30 days
when vesicles arose, soon followed by gangrene of
the toes that made rapid progress from the feet

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to the thighs, which became sphacelated, after this
the limbs dropt from their articulations. This
account differs from that of Langius, as regards the
temperature of the extremities. It is curious that
this disorder should present such opposite symptoms.
Numerous experiments have been undertaken in
order to show the agency of the Ergot in producing
the disease we have just described; amongst the
stimulus were Salerno, Tissot, and Mead, on the
^{results of} whose experiments the greatest reliance may be placed.
They have observed that Pigs, Turkeys, Ducks and Chickens,
fed on the spurred rye, for a certain length of
time, uniformly, became gangrenous, and presented
many of the symptoms which had been observed in
the human system, from the same cause.*

There have
however been some persons who deny, that the Ergot is
capable of producing disease. amongst whom are Schlegel
Darmetier, and more particularly .. M^r Model, a

*The detail of these experiments would occupy too much space were they inserted,
 suffice it to say - that the greatest reliance may be placed on their accuracy.
They have been repeated in this country, with precisely the same results.

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a Russian Apothecary, who instituted a series of experiments which he considered as having, completely negatived this supposition. As his opinion has often been quoted by those persons who do not believe that the Ergot possesses deleterious qualities I think it will be well to give a translation of part of his paper, which will shew, as I think, clearly, that these experiments were not prosecuted for that length of time, which is necessary to put the system under the complete influence of this article. His experiments were only continued for eight days, a time certainly too short for that purpose. He first experimented on a pigeon, a chicken and a dog, mixing the Ergot with their food. He then states that these preliminaries emboldened him to become the fourth subject of experiment. "I determined therefore in order to become acquainted with the labor and the effect that the Ergot would.

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fasting, during eight days. On chewing it for
the first time I thought that it was acrid,
but this soon disappeared, leaving only a
slightly bitter and nutty taste. I felt no
irritation in the throat nor any other of the
symptoms which Ergot has been said to produce.
My sleep was tranquil during the whole of this
regimen, and I had not the least headache.
Altho' my pigeon, chicken, dog, and myself
enjoyed the best health, it was necessary that
I should be fully assured as to the effect
of the Ergot. under what form said I to myself
do they make use of this article? it is only
after it has been converted into flour and
made into bread. It is possible (I continued)
that during fermentation, all these mischievous
qualities are developed; since Ergot in a state of
grain cannot produce any bad effect as my,



my experience during eight days had convinced me. I therefore reduced the Egg into a powder and obtained a flour of a brown colour; I mixed an ounce of it with ^{3/4}ounce and meal composed of the sound Rye. I made a cake of it which I suffered to become cool, in order to obviate the inconveniences of hot bread. It was of a bad colour, but good smell, and slightly bitter taste. This bread was distributed to my pensioners with great economy, according to their species not one of them were in the least affected by it. The next day, I prepared a cake of the same description, but in which I doubled the proportion of Egg. It was equally distributed and eat with the same pleasure, without the least accident having occurred from it. I had yet four ounces remaining at my disposal, I resolved to put it into double its weight of cake composed of rye, in order to see whether the animals I accustomed

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to the use of the Ergot; should in this new combination show any repugnance or any change which could be attributed to its use. Their situation appeared constantly the same. I also ate of this bread without perceiving anything particular.

* I returned my animals after this to their accustomed nourishment and visited them constantly without perceiving anything out of the way. They appeared fat and very gay; my satisfaction at seeing them enjoy the best health, was soon disturbed with the idea of their destruction. I confess that it was not without an internal struggle that I exposed myself to the removal of being cruel towards them; but the necessities of the Ergot demanded a sacrifice. It was necessary to decide. I therefore killed my pig and chicken. I did not perceive on opening the bodies of these victims, any gangrenous spot, or vestige of erosion either in the stomach or intestines. I determined not without pain to eat them ergoted as they were: my dog gnawed the bones

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and I declare neither one or the other were in the least
inconvenienced by, so doing; I also add that my limbs hold
fast to my body, and finally that they are sound and
very strong; I am far from supposing, that the Elixir is
equal to good grain; but I have shown that no bad effects
can arise from its use; as has been advanced with so much
confidence. However abundant the Elixir may be in our
crops, it never is in as large a proportion as that used
in my experiments. Altho' the number of these grains,
as undetermined we rarely, find more than 4 or 5 in
each bush of rye." I do not think it necessary to add
anything further on this subject. Most experiments
carry with them the evidence of their inaccuracy,
experience has taught us that a greater length of time
length of time is necessary, to produce these in-
usual effects which have been, with great probability,
laid to the charge of the Elixir.

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We have before stated that grain of other descriptions than that of the eye, appears capable of producing consequences similar to that of the Eye; as regards what we have the evidence of Dr Charlton Wallaston, of a family, who had subsisted on diseased wheat which they had obtained, from a neighbouring farm, having been afflicted with gangrene of the limbs, which resembled that with which Sologren has been so often afflicted.

Of the disorders with which the cattle of this country have been affected there is one supposed to have been produced by the Eye of spear grass. This complaint has prevailed in several parts of ~~the~~ the United States, more particularly the north western parts of the State of New York. an interesting paper has been published by, Dr^l Ansell, Secretary to the agricultural society, in that State, descriptive of the disease which prevailed in the year 1820. The great resemblance between this disorder and that Gangrene of Sologren is

[This account is to be found, in the Philosophical Transactions, and the Register for 1863.

It prevailed in the Plough boys of New York

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is very remarkable, and as this resemblance is of importance, as additional evidence of the deleterious effects of the spurred eye, when used to a certain extent; I will take the liberty of making use of a few extracts from this paper. Dr. Arnott, "states that the first symptoms which were observed was a lameness in the feet (Mr. Kirk noticed that his cattle kept a continual stamping with their hind feet in the morning, two or three days before he discovered any lameness) Staggering, at the mouth, in some instances vomiting, insensibility, the feet swelling above the hoof in the hind legs; frequently the fore feet were not at all affected. In this stage, if the leg was punctured, there issued out a bloody serum. Mortification commenced almost as soon as the disease is discovered and runs up the legs in about two weeks, when it forms a separation from the living flesh, in about two weeks more the legs fell off at the separated parts - sometimes at the pastern joint, but more frequently above it; the skin was of the mortified

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mortified part, soon becomes hard and dry, and has the appearance of what is denominated dry gangrene. Their appetite for food continued good; the countenance depressed and ^{the} shrunk in the head, their natural exertions continued regular; they lie down and as if sensible of their situation make no attempt to rise. As we see in this account many symptoms that coincide with the descriptions that have been given of the gangrene of Sologne. The insensibility of the feet; the gangrenous condition of the limbs. the general appearance—agree so well with the effects produced by the Erys, that we cannot for a moment doubt what cause to refer it to, more particularly when we have sufficient ^{evidence} that these cattle were fed on grass which abounded in Erys. of that species of grass which produces the Erys than are three: the one we are about to consider is the *Poa pratensis* or meadow sweet grass; and in hay made of this species of grass were fed those cattle whose disorder has been described above.

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Dr. Smith mentions that this grass contained a vast quantity
of Ergot that year - he then goes on to say, "The facts on
which the cause of this disease rest, were strong and
convincing, to most of those in the districts of the country
where the disorder prevailed. Mr. Elisha Sawston lost 24 cattle
all of which had been foddered on this kind of hay,
Mr. Q. Reeve lost 14 and what is remarkable he sold a
load of this hay to widow Cox before the least suspicion
was entertained as to its poisonous qualities and three
of her cows took the disease ten days after she began to
use this hay. Mr. G. Little procured some of the same
hay, from Mr. Reeve, which produced the same effect on
his cattle. Mr. More Phillips had a meadow of this grass
two miles from this village which he cut before harvest,
he sent 14 of his cattle there to be foddered with this
hay, and which was full of Ergot; the consequence was
that 5 took the disorder and altho' they were taken home
and yarded with the other cattle no others took. Some
cases occurred in Florida (N.Y.) particularly amongst the

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the cattle of Thomas Tompkins, he had cut two stacks of
this hay, spears grass on the 5th of July, last, and considering
it as having been secured in good order he resolved to
keep it until during the latter part of the winter he
began to the hay, about the 4th of March and found his
best cows took the mixture soon after. The same effect
took place with regard to horses & small cows. I have
now that Mr. L. Hallett, of Blooming Grove, used the
same kind of hay, and with the same unfavorable
results; having 10 or 12 cattle (including calves) by the
1st of this Sept. (1830) on the 1st of Nov. 1829, and incurred
the same loss to the same extent.

The above extracts
are sufficient in my mind to show that the disease was
caused by the curing process, or hay, containing sugar
and an analogous result. The loss of the hay is
in the human system.

Having considered
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Practitioners.

Having considered the evil consequences which have
resulted from a continued use of the spurred rye; we
will return to a more pleasant task, that of recording,
the beneficial effects attending on its use as a medicine.
The earliest account I have met with of its employment
in accelerating lingering labours, is in the Dictionnaire
d'Histoire Naturelle, by Bonnier, in which work he states
that, he had read in the Journal de Trévigne for August
1774, that Mrs Dupille of Chaumont en Brie, whose principal
occupation, seems to have been the succor of the sick who
were in want of relief, and she was in the habit of
administering, to ^{parturient} (according to the directions of her time)
in lingering labours, a thimbleful of Rye ^{affused} ~~disposed~~ either
in wine, broth, or water. when the child presented well,
labour was accomplished in a half an hour; and that
these women were not injured by the use of such a
remedy. But it would appear that this practice either
fell into disuse, or never was noticed by regular
Practitioners.

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or that it never was noticed by regular practitioners.
at the same time it is curious that it should not have
attracted the notice of those Physicians, who were in
the constant habit of seeing persons diseased from the
use of the Ergot. For when we consider the wide
prevalence of this disorder, and that females must
in all stages of pregnancy have partaken of a
sufficient quantity of Ergot to have produced
+ abortion; yet we do not find any such effects having
taken place. The only account I have met with of
females having been affected in a peculiar manner
is in a description given by J H Bingham, of
Convulsio Cerealis in Silesia. In which it is stated
to have continued much longer in females, and was
extremely violent about the menstrual effort, after
this had taken place they did not complain much,
unless it was of great prostration, until the
return of the menses ushered in new sufferings.
On the other hand it is stated by Morel that females

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were not generally afforded by the dry gangrene which
attended Measles and Blainitis in 1709. Now to explain
this exception I am unable, yet such is the fact.

Do^r Doctor Stearns of Andover are we to our honour
having introduced into regular practice the Electro-
therapy in lingering labours; and miraculously
" " " " to produce in the hands of skillfull
men, all the good effects which could have been
expected by its warmest friends.

Much has already
been said by Do^r Stearns and other practitioners, as to
the proper cases, and modes of exhibition in labour,
that I think a repetition in this place, unnecessary.
From the known fact, that Electrotherapy has a specific
action to the uterus, we should be led to the conclusion,
that we would find in this article a useful remedy
for several of those disorders, to which this organ
is liable, and on which depends in so great a
degree the health of women: accordingly this



medicine has been tried in dysmenorrhoea, but not
with the success that might have been expected. From
the action of Ergot which is prompt, not continuing
for more than a few minutes, it would seem to be
only applicable in those cases kept up by the formation
of the membranous decidua - and indeed, doctor Chojan
mentions two cases ⁱⁿ which this article was found
all in expelling the membrane. That a total
expulsion of the menses may originate from this
cause, as, I think, is certain, and to such case
where I conceive the Ergot as peculiarly suited.
I would not only use it as a mechanical remedy,
expelling the uterus ^{by its direct contraction} to detach and throw off the
membranes; but also use the evulsion increasing
the force of blood to those parts; and by that
stimulus inducing the uterus to exert its proper
renewing action. I am indebted to Dr Richard Powell
of this place, for the detail of the following case
which shows in a clear point of view, the superiority

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of this medicine in those cases, to which ^{it} I have considered
it as peculiarly applicable.

"J.B. a young girl of about
nineteen years of age, by trade a milliner, had been
labouring under a suppressed cat^amenia for more
than several months, when she applied to me for
relief after ascertaining the symptoms which marked
her case, and the remedies that had been unsuccessfully
employed by the physician who had ^{previously} attended her,
I was persuaded that the cause of her disorder,
might be referred to the membrana decidua; and
that the only hope of affording her permanent
relief, was in effecting the expulsion of that
morbid production. I recollected having read
many years ago, in the Eclectic Repository, a very
interesting paper by Dr Chapman on the subject.

The Polygala Senega in such cases as I apprehended
this to be. I therefore determined to make a trial of
this medicine. I directed it to be prepared and

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administered, as prescribed by Prolegomena. in the
several cases which came under his care: But after
persisting in its use for several weeks, ~~and~~ ^{occasionally}
laying it aside, I could discover no decided
improvement in my patient. As almost all remedies
belonging to the class of Emmenagogues, had been fully
administered to this girl before she came under my
care, and being discouraged from a further use of
the Lenaga, I next determined to make a trial
of the Uterus. The decided efficacy of this medicine
in promoting the speedy expulsion of the foetus
in lingering labour, gave it a strong recommendation
to my notice, in those cases where we had reason
to believe the membrane exists. My method of preparing
and administering the Uterus was as follows— I
directed ʒij of the powder to be put in a pint
of water and boiled away ^{1 third} ~~down~~. The patient,
was to take the third of the decoction thus prepared,
every hour until strong pains commenced in the

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in the uterus: then suspending a further use of the
medium for eight or ten hours; when the same mode
of proceeding, was to be renewed. This practice was
proceeded in for two or three days in succession, when
I received the gratifying intelligence from my
patient that she had discharged a substance of a
membranous nature, of the size, as she said, of a dollar.
I regret that this substance was not preserved and
submitted to my inspection. I have no doubt however
of its being that genuine adventitious membrane
announced Membrana decidua. The menstrua-

lary immediately followed its expulsion, and
continued to flow for three days. It is now six months
since this patient was under my care; she continues
to menstruate regularly at the usual intervals. The
whole quantity of Uterine discharges not exceed 2ij^{ss}.

I cannot but believe that the Uterine would on a
more extended trial be found useful in those cases
of Amenorrhoea not kept up by the Membrana decidua.

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For I am of opinion that many cases depend as much upon a languid circulation, in the uterine region, and by an atonic state of the uterus, induced by the absence of the stimulus, blood, which is determined to these parts, in a state of health, at periodical intervals, as upon a perverted action of the uterus itself. We see too in many cases of amenorrhoea are attended by an enfeebled state of the system, and consequently, a languid circulation. That when Tonics are given to restore it to a state of ~~former~~ strength, that on this event taking place, the circulation is increased, and that frequently, the menstrual discharge takes place. I would endeavour to explain it in the following manner - That the blood not being, determined in a sufficient quantity, to these parts, owing, to an enfeebled state of the circulation, the uterus falls into an atonic state - that on tone being, imparted to the system, the circulation and the volume of the blood is increased, and that

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that from the present stimulus of the blood, there is imparted
to the uterus enabling it to perform its proper function
when the stimulus is removed, as in the case
of a woman who has been bled to faintness, &c.
but we see many cases of dysmenorrhoea in which there is
an increased circulation, and that in this case there certainly
must be sufficient stimulus of blood present to bring about the
proper secretion. I would answer that, in this case there
is an over stimulus applied, disabling the uterus from
executing its proper secretory power. The stimulus being,
so great, that it produces an atonic state of the uterus.
The proof of this may be found in the circumstances of the
best effects having been produced by bleeding, in such
cases. As an illustration I might give the apoplectic
pulse, in which case it is owing, to the too great volume
of the blood, impairing thereby the vital functions, on blood being
abstracted, their ^{proper} action is restored, again altho' there may
be an increased circulation, the blood may, be determined
to other parts, by causes with which we are unacquainted,

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I know that in some instances, the blood which should have been thrown off by the ^{uterus}, is often discharged through the medium of the Stomach, or by Eristaxis. Besides, those cases which I have alluded to are not those of increased, but of diminished circulation—

Now in such cases the indications would be. 1st to strengthen the system, and by that means increase the circulation—2nd to produce a proper determination of blood to the uterus—For fulfilling the first indication I would make use of Remedies which would tend to strengthen and invigorate the system. This point gained, I would, in order to accomplish the second indication I ~~would~~ resort to the Erist which by the irritation and stimulus, would occasion a determination of blood to these parts.

There are persons who object to the Erist that its effects are too transient to do good. That its action does not continue for any great length of time I am well aware,

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But I think if applied at a proper time and in a proper manner, it would have the effect of awakening the uterus, if I may be permitted the expression, to its proper action.

Of the employment of the Ergot in uterine hemorrhages, I know nothing; but from its action I would consider it as eminently calculated for that purpose. It has also been used to restrain floodings with much success. On the whole I am of opinion that on a more extended trial of the Ergot it will acquire, and justly too, an increased reputation.

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